

Title (en)  
REFRIGERATOR AND METHOD FOR OPENING A REFRIGERATOR DOOR

Title (de)  
KÜHLSCHRANK UND VERFAHREN ZUM ÖFFNEN EINER KÜHLSCHRANKTÜR

Title (fr)  
RÉFRIGÉRATEUR ET PROCÉDÉ D'OUVERTURE D'UNE PORTE DE RÉFRIGÉRATEUR

Publication  
**EP 4083549 A1 20221102 (EN)**

Application  
**EP 22162314 A 20160427**

Priority  
• KR 20150058952 A 20150427  
• KR 20160001272 A 20160105  
• EP 19159988 A 20160427  
• EP 16786748 A 20160427  
• KR 2016004425 W 20160427

Abstract (en)  
Provided is a refrigerator (1) and control method for refrigerator and method for opening a refrigerator door (20). While a user is holding an object in both hands, a door (20) may be automatically and additionally opened using another part of a body other than hands.

IPC 8 full level  
**F25D 23/02** (2006.01); **E05F 15/619** (2015.01); **E05F 15/73** (2015.01); **F25D 23/06** (2006.01); **F25D 27/00** (2006.01); **F25D 29/00** (2006.01)

CPC (source: CN EP KR US)  
**E05F 15/619** (2015.01 - EP KR US); **E05F 15/73** (2013.01 - EP KR US); **E05F 15/75** (2015.01 - US); **F21V 5/008** (2013.01 - US); **F21V 5/04** (2013.01 - US); **F21V 14/06** (2013.01 - US); **F21V 17/12** (2013.01 - US); **F21V 19/0015** (2013.01 - US); **F21V 23/0471** (2013.01 - US); **F21V 33/0044** (2013.01 - US); **F25D 11/02** (2013.01 - CN KR US); **F25D 23/02** (2013.01 - US); **F25D 23/028** (2013.01 - CN EP KR US); **F25D 27/00** (2013.01 - KR); **F25D 27/005** (2013.01 - EP US); **F25D 29/00** (2013.01 - CN EP US); **F25D 29/003** (2013.01 - US); **F25D 29/005** (2013.01 - US); **F25D 29/008** (2013.01 - KR); **H05B 47/16** (2020.01 - US); **E05F 2015/765** (2015.01 - US); **E05Y 2400/44** (2013.01 - US); **E05Y 2400/45** (2013.01 - US); **E05Y 2400/858** (2013.01 - US); **E05Y 2900/31** (2013.01 - EP KR US); **F21W 2131/305** (2013.01 - US); **F21Y 2115/10** (2016.08 - US); **F25D 2323/021** (2013.01 - EP KR US); **F25D 2323/023** (2013.01 - US); **F25D 2400/36** (2013.01 - KR); **F25D 2600/02** (2013.01 - EP US); **F25D 2700/02** (2013.01 - CN EP KR US); **F25D 2700/04** (2013.01 - CN EP KR US); **Y02B 20/40** (2013.01 - EP KR)

Citation (applicant)  
KR 20110040030 A 20110420 - LG ELECTRONICS INC [KR]

Citation (search report)  
• [A] EP 2787311 A2 20141008 - LG ELECTRONICS INC [KR]  
• [A] KR 20140082961 A 20140703 - VALEO SECURITE HABITACLE [FR]  
• [A] US 2007035521 A1 20070215 - JUI PING-CHANG [TW], et al  
• [A] KR 20130028839 A 20130320 - KIM JUN GYU [KR]  
• [A] JP 2006329555 A 20061207 - MATSUSHITA ELECTRIC IND CO LTD

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016175562 A1 20161103**; CN 107076509 A 20170818; CN 107076509 B 20200901; CN 112212604 A 20210112; CN 112212604 B 20220527; EP 3146281 A1 20170329; EP 3146281 A4 20180124; EP 3146281 B1 20190417; EP 3521737 A1 20190807; EP 3521737 B1 20220420; EP 4083549 A1 20221102; KR 102076190 B1 20200211; KR 102328135 B1 20211118; KR 102444147 B1 20220919; KR 102573836 B1 20230905; KR 102678738 B1 20240701; KR 20170095393 A 20170822; KR 20200015846 A 20200212; KR 20210138178 A 20211118; KR 20220128676 A 20220921; KR 20230132597 A 20230915; KR 20240099510 A 20240628; US 10677510 B2 20200609; US 10677511 B2 20200609; US 10684064 B2 20200616; US 10690393 B2 20200623; US 10746457 B2 20200818; US 10767918 B2 20200908; US 11274872 B2 20220315; US 11740007 B2 20230829; US 2018038626 A1 20180208; US 2018038627 A1 20180208; US 2018038634 A1 20180208; US 2018038635 A1 20180208; US 2018038636 A1 20180208; US 2018038637 A1 20180208; US 2020355423 A1 20201112; US 2022155002 A1 20220519; US 2023358463 A1 20231109

DOCDB simple family (application)  
**KR 2016004425 W 20160427**; CN 201680003379 A 20160427; CN 202010772442 A 20160427; EP 16786748 A 20160427; EP 19159988 A 20160427; EP 22162314 A 20160427; KR 20177021681 A 20160427; KR 20207003440 A 20160427; KR 20217037142 A 20160427; KR 20227031470 A 20160427; KR 20237029330 A 20160427; KR 20247020317 A 20160427; US 201615532806 A 20160427; US 201715699033 A 20170908; US 201715699152 A 20170908; US 201715699268 A 20170908; US 201715699331 A 20170908; US 201715699396 A 20170908; US 202016938568 A 20200724; US 202217592177 A 20220203; US 202318222198 A 20230714